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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/985,783	11/06/2001	Toshiyuki Kase	R2184.0109/P109	4516

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EXAMINER

AGUSTIN, PETER VINCENT

ART UNIT	PAPER NUMBER
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2652

DATE MAILED: 04/20/2004

6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/985,783

Applicant(s)

KASE, TOSHIYUKI

Examiner

Peter Vincent M Agustin

Art Unit

2652

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) 5 and 6 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 November 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Election/Restrictions

1. Claims 5 & 6 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 5.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

3. The drawings are objected to because of the following minor informalities:

- a. On figure 2, box 21: "resunption" should be --resumption--.
- b. On figure 2, box 22: "resuning" should be --resuming--.
- c. On figure 4, box 50: "tou" should be --you--.
- d. On figure 8, box 70: "tou" should be --you--.
- e. On figure 10, step S33: "estinating" should be --estimating--.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

4. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-⁴~~3~~ rejected under 35 U.S.C. 102(e) as being anticipated by Kitamura et al. (hereafter Kitamura) (US 2002/0041554).

In regard to claim 1, Kitamura discloses an information recording and reproducing system (figure 1) comprising: a host device (A); and an information recording and reproducing device (B) connected with said host device via a host interface (8 & 16), the information recording and reproducing device including a data-recording interrupting-resuming unit (12 & 13) that performs a recording of data transferred from said host device via said host interface on a recording medium (C) at a predetermined data-writing velocity, and, in a case of having interrupted said recording, resumes said recording by linking an end point of said data upon the interruption with a start point of said data upon the resumption so as to maintain a continuity of said data (paragraphs 0016 & 0167), wherein said host device includes a control-command issuing unit (6) issuing a control command to said information recording and reproducing device, the control command causing said data-recording interrupting-resuming unit either to perform the interruption and resumption of the recording or not to perform the interruption and resumption of the recording (figure 2, step S1), and said information recording and reproducing

device includes a data-recording interruption-resumption control unit (15) controlling said data-recording interrupting-resuming unit either to perform-the interruption and resumption of the recording or not to perform the interruption and resumption of the recording (paragraph 0171), according to said control command received from said host device via said host interface.

In regard to claim 2, Kitamura discloses a selection inputting unit (figure 2, step S2) supplying said control-command issuing unit with an arbitrary selection that causes said control-command issuing unit to issue either of a control command causing said data-recording interrupting-resuming unit to perform the interruption and resumption of the recording, and a control command causing said data-recording interrupting-resuming unit not to perform the interruption and resumption of the recording.

In regard to claim 3, Kitamura discloses a test-writing unit (figure 6, element 10) causing said information recording and reproducing device to perform a test-writing to said recording medium at a predetermined writing velocity; an interruption-probability judging unit (figure 7, step S25; paragraph 0197) making a judgment on whether or not there is a probability of the interruption during a recording of data to said recording medium, according to a result of said test-writing; an interruption-probability judgment-result outputting unit (figure 6, element 4; paragraph 0200) outputs a result of said judgment; and a selection-inputting function control unit (figure 2, step S2) enabling said selection via said selection inputting unit, after said interruption-probability judgment-result outputting unit outputs said result of said judgment.

In regard to claim 4, Kitamura discloses a selection-information creating unit creating appropriate selection information based on conditions including a data capacity to be written to said recording medium (paragraphs 0208 & 0209), when said interruption-probability judging

unit judges that there is a probability of the interruption during a recording of data to said recording medium, the selection information being used to perform the recording without the interruption, and said interruption-probability judgment-result outputting unit further includes a selection-information outputting unit (figure 12, element 107) outputting said selection information along with said result of said judgment.

7. Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

8. Claim 1 rejected under 35 U.S.C. 102(b) as being anticipated by Tsukihashi (EP 0974966) (see also JP 2000040302).

In regard to claim 1, Tsukihashi discloses an information recording and reproducing system (figure 1) comprising: a host device (10); and an information recording and reproducing device (15) connected with said host device via a host interface (8), the information recording and reproducing device including a data-recording interrupting-resuming unit (18) that performs a recording of data transferred from said host device via said host interface on a recording medium at a predetermined data-writing velocity, and, in a case of having interrupted said recording, resumes said recording by linking an end point of said data upon the interruption with a start point of said data upon the resumption so as to maintain a continuity of said data, wherein said host device includes a control-command issuing unit (paragraph 0027) issuing a control command to said information recording and reproducing device, the control command causing said data-recording interrupting-resuming unit either to perform the interruption and resumption of the recording or not to perform the interruption and resumption of the recording, and said

Art Unit: 2652

information recording and reproducing device includes a data-recording interruption-resumption control unit (16) controlling said data-recording interrupting-resuming unit either to perform-the interruption and resumption of the recording or not to perform the interruption and resumption of the recording, according to said control command received from said host device via said host interface.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hyun (US 6,538,962) discloses a method and apparatus for recording in the event of a buffer underrun.

Hayashi et al. (US 2001/0006498) discloses a data recorded for recording data on a recording medium such that the occurrence of buffer underrun errors are prevented.

Morimoto (JP 09231011) discloses a system for effectively transferring of data by preventing occurrence of a buffer underrun caused by varyings processing speeds.

Suzuki et al. (JP 07336640) discloses a system that avoids buffer underflow to attain continuous reproduction of data with different compression rates.


10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Vincent Agustin whose telephone number is (703) 305-8980. The examiner can normally be reached on Monday thru Friday 9:00AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on (703) 305-9687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2652

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PVA
04/05/2004



W. R. YOUNG
PRIMARY EXAMINER